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OF THE

# BOARD OF AGRICULTURE.

## GENERAL INDEX.

VOLUMES XI.—XVII.

April, 1904, to March, 1911.



#### LONDON :

PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE,
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No. 1.—Report on Agricultural Education in
THE UNITED STATES JAN., 1908
No. 2.—The Food of Some British Birds Dec., 1908
No. 3.—Reports on the Work of the Inter-
NATIONAL AGRICULTURAL INSTITUTE APRIL, 1910
No. 4.—Wheat: Papers Read at a Meeting of
THE BRITISH ASSOCIATION AT WINNIPEG,
1909 June, 1910
No. 5.—Influence on the Production of
MUTTON OF MANURES APPLIED TO
Pasture Jan., 1911

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Board of Agriculture and Fisheries, Whitehall Place, S.W. April, 1911.

## JOURNAL

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NOTE—Subjects falling under the following headings are indexed, as a rule, under those headings only, viz., "Insects," "Fungi," "Congresses," "Exhibitions," "Machinery," "Import and Export Regulations."

Articles or reports on subjects which appear in the Journal each month are not separately indexed, viz., Notes on the Weather; Notes on Agricultural Labour in England; Notes on Crop Prospects; Reviews of the Corn Markets, the Live and Dead Meat Trade, and the Provision Trade; Prices of Agricultural Produce; Outbreaks under Diseases of Animals Acts; Lists of Additions to the Board's Library; and Selected Contents of Periodicals.

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	Larder beetle (Dermestes lardarius) Large larch sawfly (Nematus Erichsoni) 416; XV., 649; XVI., 502, 9	XCTTT	0	X1V.,	160
	Large larch sawfly (Nematus Erichsoni)	XIII.,	374,	385; X.	LV.,
	416; XV., 649; XVI., 502, 9 Leaf-curling plum aphis (Aphis pruni) Leaf hoppers (Typhlocybidae)  "Leather jackets" XI., 215; Z Lecanium scale on ferns Long horned centipede (Geophilus longicornis) Magpie moth on euonymus Margnerite fly (Nanomyja lateralis)	81; XVI	11., 1	50, 316,	478
	Leaf-curling plum aphis (Aphis pruni)	. XIII.,	712;	XVII.,	826
	Leaf hoppers (Typhlocybidae)		***	XIII.,	716
	Leather jackets X1., 215;	XV., 200	; XV	1., 763,	934
	Lecanium scale on ferns		***.	XV.,	603
	Long horned centipede (Geophilus longicornis)	• • •		XV1.,	625
	Magpie moth on euonymus	• • • • • • • • • • • • • • • • • • • •		X1V.,	213
	Marguerite fly (Napomyia lateralis)	• • •		XIV.,	218
	Magpie moth on euonymus  Marguerite fly (Napomyia lateralis)  Mealy bug  Mealy plum aphis (Hyalopterus pruni)	***	***	XV.,	925
	Mealy plum aphis (Hyalopterus pruni)	XIII.,	713;	X V 11.,	827
	Mediterranean fruit fly (Ceratitis capitata)	. XII., 6	589;.	X111., 4	<b>:40</b> ;
	7.5111	TTT 200	XI	V., 630,	696
	Millipedes (Blanjulus guttulatus, etc.)	X V., 508,	750	; X V1.,	625
	Mites XIV., 108, 156. Mushrooms, beetles on (Staphylinidae and 2	, 219 ; X	V., 2	77, 688,	925
	Mushrooms, beetles on (Staphylinidae and A	Aphodius ,	fime-	ractor tar	000
	tarins)	***	***	XI.,	302
	Mussel scale (Mytilaspis pomorum) X	III., 623,	717	XVI.,	935
	Mustard beetle (Phaedon betulae)		***	XIV.,	214
	Narcissus fly (Merodon equestris)	• ( ., •••		XVI.,	295
	Needle-nosed hop bug (Calocoris fulvomaculate	<i>ts</i> )		XVI.,	568
	Nettle-head in hops (Heterodera schachtii)		XV	1., 555,	625
	Nun moth (Ocneria monacha)			I., 555, XVII., V., 478,	501
	Oak spangle gall		XI	V., 478,	557
	Oat aphides		***	X V.,	436
	Orchard pests in 1900			XIII.,	
	Otter moth (Hepialus humuli)		• • • • •	XVI.,	563
	Oyster shell bark scale (Aspidiotus ostreaeform	is) XIII.,	717 ;	XIV.,	614
	Påle tussock moth (Dasychira pudibunda) Pear leaf blister mite (Phytoptus (Eriophyes) p			XVI.,	563
	Pear leaf blister mite (Phytoptus (Eriophyes) p	yri)		XIV.,	743
	XV., 277, 437; XV	'1., 210;	XVI	I., 123,	299
	Pear leaf miner (Cemiostoma scitella)	XIII.	1,708	; XVI.	,475
	Pear midge (Diplosis pyrivora)			XIII.,	710
	Pear-shaped weevil (Apion apricans)		***	· XV.,	957
	Pear thrips	• • • •		XVII.,	
	Pea beetle (Bruchus pisi)	***	,	_XI.,	225
	,, weevil (Sitones lineatus)			XIV.,	161
	Pigmy mangold beetle (Atomaria linearis)	. XV.,	274,	356; X	VI.
		1		388,	474
	Pine beetle (Hylesinus piniperda)		***	XIV.,	217

Insects, etc. (continued)—			,		;
Pine sawfly (Lophyrus pini)			7.00	XVII.,	478
,, weevil, banded (Pissodes notatus)			1914.4	X1	686
,, ,, large brown (Hylobius ab	ietis)			XI., XII.,	690
Pines, insects on (Chermes piceae)			***	XII.,	563
Pith moth (Blastodacna vinolentella)		XIII.	,707;	XIV.,	310
$Laverna\ atra)$		X1.	, 649;	XIII.,	707
		XI.	, 34;	XVII.,	823
On mangolds				XI.,	288
Plum aphis (Aphis pruni)		XIII.,	712;	X V 11.,	826
,, and cherry tree borer (Semasia i	voeberan	$\alpha$ ) XIII.	,708;	XVII.,	828
fruit sawfly (Honlocamna fulvicos	rnis) X	HI = 709	$\cdot \mathbf{X} \mathbf{V}$	T 385	389
"," weevil (Otiorhynchus tenebricosus Poplar beetle (Melosoma populi) Poplar or willow longicorn beetle (Sap Purples or "ear cockles" Puss moth (Cerura vinula)	)	1000	***	XII.,	681
Poplar beetle (Melosoma populi)		***	0.107.0	XVI.,	475
Poplar or willow longicorn beetle (Sap	erda car	charias)		XVII.,	480
Purples or "ear cockles"		10.4.4		XV.,	507
Puss moth (Cerura vinula)				XIV.,	682
Raspberry Deetle (Buturus tomentosus)	XIII	(11: XV)	434	: X V I I	49
Red spider (Tetranychus and Bryobia)	X	I., 173,	649;	XIII., 7	18;
Red spider (Tetranychus and Bryobia)	XV.,	46; X	VI., 29	96, 319,	936
Rose aphides	.,	4.4.4	410.0	XVII.,	826
Rose aphides Rosy rustic moth (Hydraecia micacea) St. Mark's fly (Bibio Marci) Sawfly on willows (Nematus gallicola)	19.00	***		XV.,	505
St. Mark's fly (Bibio Marci)		XIV.,	218;	XVII.,	300
Sawfly on willows (Nematus gallicola).		XIV.,	294;	XVII.,	479
Scale on roses (Diaspis rosæ)				X V	437
Sheep maggot fly (Lucilia sericata),		XIII	** **	XI.,	551
Sheep nostril fly (Oestrus ovis)				XI.,	227
Shield bug (Tropicoris rufipes)				XIII.,	717
Shipworm (Teredo)			100.00	XIV.,	683
Shield bug (Tropicoris rufipes) Shipworm (Teredo) Shoot and fruit moth (Incurvaria capit	tella)			XI.,	170
Slugs		XIII	[., 718	; XV.,	926
Slugs and snails		XI., 59	4,650	; XIV.	, 43
Slugs Slugs and snails Slugworm (Eriocampa limacina)		XI., 59		XIII.,	709
Small larch sawfly (Nematus laricis)				XVII.,	478
Show flies (Alearodes)		XI.	, 171;	XIV.,	159
Spiders Spotted leaf hopper (Typhlocyba querco Springtails (Collembola)		44,6	***	XV.,	603
Spotted leaf hopper (Typhlocyba querce	a)			XIII.,	716
Springtails (Collembola)		XIV., 5	57; X	V., 46,	202
Starlings, destruction of insects by				XII.,	163
Stem eelworm (Tylenchus devastatrix)		XI.,	219;	XII.,	755;
		XIV.	, 223;	XVI.,	627
Store beetles (Anobium paniceum)			* * * *	XIV.,	555
Strawberry aphis				XIII.,	715
Starlings, destruction of insects by Stem eelworm (Tylenchus devastatrix)  Store beetles (Anobium paniceum) Strawberry aphis , beetles (Harpalus ruficorn	is, Ptero	stichus			
tuddel is, all L. made in it	Lates, DOOD 9			AL TELLOG	000
Cu 1 1 1 ( A . I . I		VIII	710.	VVII	014
Strig maggot (Diplosis humuli)				XVI.,	565
Strawberry eelworm (Apnetenchus Irage Strig maggot (Diplosis humuli)  Summaries of experiments  Swallow tail moth  Swift moth (Hepialus lupulinus)  Thrips in wheat (Thrips cerealium)  on peas  Timbon invests in (Lutus canaliculatus)		XV.	, 956;	XVI.,	934
Swallow tail moth			***	XV.,	433
Swift moth (Henialus lupulinus)		XIV	., 352	; XV.,	924
Thrips in wheat (Thrips cerealium)				XIV.,	355
on peas		8.8.8		XVI.,	934
Timber, insects in (Lyctus canaliculatu	s)		* * *		OZI
Tineid moth (Cemistoma or Leucoptera				XVI.,	475
Tineid moth (Lyonetia clerekella)		X		; XV.,	
Tineid moth caterpillars (Carcina quere	cana)		***	XV.,	687
Tortrix moth		10-9-9		XV.,	355
Tortrix moth caterpillars	1818.8		V., 16	52, 291,	351
Trap lanterns or insect catchers		100		XII.,	164
era ar	. , ,			XI.,	
				XV.,	
Turnip fly		***	X	II., 38,	

Inse	ects, etc. (continued)-	-							
	ects, etc. (continued)— Turnip gall weevil Turnip mud beetle (H Turnip and mustard k Vapourer moth (Orgy)	***				***	•••	XV.,	201
	Turnip mud beetle (H	${\it Ielophorn}$	us rugos	sus)	• • •	XI.	, 489	; XII.,	102
	Turnip and mustard b	olossom	beetle (.	Meliq	jethes $c$	aeneus)		XIV.	, 214
	Vapourer moth (Orgy Vine weevil (Otiorhyr Vine weevil (Otiorhyr	ia antiq	ua)					XII.,	420
	Vine weevil (Otiorhyr	ichus pic	ipes)	X	111., 7	11 ; XV	1., 19	92, 476,	558
	Vine weevil (Otiorhyr	nchus $sul$	catus)					XVI.,	559
	Warble fly (Hypodern	na bovis)	X	Ш.,	482;	XVI., 9	37; 2	X V 11.,	317,
								621,	659
	Wasps	1 111 12	****			•••	***	XIV.,	157
	Wax moth Weevils Wheat bulb fly (Hyle		***		•••			_ XV.,	432
	Weevils	* ***	***	***	**,*	• • • `	XIV	7., 160,	293
	Wheat bulb fly (Hyles	myia coa	rctata			XV.,	840;	XVI.,	388
	Wheat midge (Cecidor Willow beetle (Galerr	nyia [or	Diplos	is] tri	tici)		XIV	., 353,	415;
						XV.,	924;	XVI.,	198
	Willow beetle (Galeri	$ucella\ lin$	$(eola)\cdots$		XII	., 51; 7	XIV.,	293; 7	ΧV.,
				7/D .	$\mathbf{n}$	. X V I	~ 1 1 .	X V I I	4.×1
	Willow beetle (Phrate	$ora\ vitell$	inae)		• • •	XIV.	, 214	; XV.,	276
	Willow beetle (Phyllo	$decta\ vit$	ellinae)		•••			XVII.,	480
	Willow longicorn bee	tle ( $Sape$	erda car	rchar	ias)	• • •		XVII.,	480
	Willow beetle (Physios Willow longicorn bee Winter moth (Cheima Wireworms (Elateride	tobia bri	umata	XII	[1., 707]	7; XV.	, 200;	XVI.	, 126
,									
	Wood leopard moth (	Zeuzera	aesculi)			-X11	116	; XV	840
	Wood lice					XIII	., 377	; XV. XIV II., 55	, 277
	Wood wasps							XIV	., 98
	Woolly aphis (Schizon	eura lan	igera)				XI	II., 55	, 711
	Worms					XIV	., 295	; XV. I., 385	'841
	Yellow-horned sawfly	(Hoploc	ampa f	ulvice	ormis)		XV	I., 385.	389
	Acherontia atropos			*** **				A. V	, อบอ
	Acronycta tridens	* ***						XIII.	707
	Aegeria myopaeformis		*** * * *					XIII	707
	Agriotes lineatus, obsc							XVI	556
	Agromyza frontalis							XVI.	568
	Aleurobius farinae					' XV.,	925:	XVI.	922
	Aleyrodes		***	***		XI.,	171;	XIV.	159
	Anarta melanopa		******					XIV.	291
	Anobium domesticum							XIV.	352
	Anobium paniceum		***					XIV.	. 555
	4 71 7 7 1							XIV.	157
	Anthonomus pomorun					XIII	, 711	; XV.	674
	Anthonomus rubi						•••	XIII.	711
	Aphelenchus fragaria				***	XIII.,	718;	XVII.	214
	Aphelenchus pyri	E					X	V., 287	507
	Aphis avenae							XV.	436
	Aphis brassicae							XVII.	
	Aphis fragariae	***						XIII.	.715
	Aphis liquistri		***				•	XIV.	682
	Aphis pruni	***				XIII.,	712:	XVII.	826
	Aphis ligustri Aphis pruni Aphis rapae	***	•••		•••			XV.	603
	Aphis rumicis					•••		XVII.	824
	Aphodius fimetarius		***	•••	•••	•••		XI.	302
	Apion	***							601
	Apion apricans	7 1			**		•••	XV.	^ ~ ~ ~
	Argyrethesia conjugell							XIII.	
	Argyresthia (Tinea) le					XIV.,			
	Aspidiotus hederae		* * *				••••	XV.	
'	Aspidiotus ostreaeform	nis						; XIV.	, 614
	Atomaria linearis				χV9	74, 356	· XV	T. 388	474
	Aulacaspis (Diaspis)	nentagon	d	••• 4			, 4 ,	XV.	619
	Baridius weevils	peningon						XIV.	295
	Bibio Marci					XIV.,		XVII	300
	Bibionidae	•••		***	١.			XVI.	
	Binglium keyense	***	***	• • •	12 648		•••	XVI.	

Ins	ects, etc. (continued)—								
	Blanjulus guttulatus							XVI.,	625
	Bombus			•••				XV.,	
	Bruchus pisi							XI.,	
	D 7 C			, ,0,0.0					162
	Bryobia	•••				XI., 17		) : XV.	. 46
	Bryobia pretiosa	• • •	,	***		XIII.,			
	Byturus tomentosus				I., 711	l; XV.,	434:	XVII	. 49
	Cacilius flavidus	***		•••				XIV	551
	Calandra granaria and			• • •			XIV	160.	412
	Calathus cisteloides			•••				., 160, XVII.,	388
	Calocoris fulvomaculatus							XV1.,	568
	Carabidae				XIV	7., 217,	292 :	XVII.,	388
	Carcina quercana			***				XV.,	687
	Carpocapsa pomonella					XIII.,			
	Cecidomyidae			499 : 2	XIV.,	311 <u>, 3</u> 53	, 415	; XV.,	435
	Cecidomyia destructor	***		***		XI.,	282;	XIII.,	440
	Cecidomyia rosaria			***				XVI.,	475
	Cecidomyia trifolii							XVII.,	215
	Cecidomyia saliciperda						X	II., 49,	499
	Cecidomyid fly			• • •		*** ***		XVII.,	479
	C 1					A111.,	708;	$\Delta VL$	475
	Cephus pygmaeus	• • •		. ***				XIV.,	478
						XIV.,	292;	XVI.,	192
	Ceratitis capitata		X	II., 689	: XI	II., 440	XIX;	7., 630,	696
	Cerura vinula				-1	***		XIV.,	682
	Ceutorhynchus on turnip						$\mathbf{X}$	II., 39,	738
	Ceutorhynchus sulcicollis			***				XV.,	201
				XII	I., 707	'; XV.,	200;	XVI.,	126
	Chermes					02, 436,			
	Chermes laricis				-			XII.,	307
	Chermes piceae							XII.,	563
	011 11 11							XIII.,	716
	Chlorita viridula							XIII.,	716
	Chlorops taeniopus				,			XVI.,	388
	Chromatomyia ilicis							XIV.,	218
	Chrysopa flavifrons							XVII.,	300
	Cimbex sylvarum							XVII.,	479
	Clissiocampa neustria							XIII.,	706
	Coleophora laricella				•••		***		
	Collembola				*** .	$\alpha \perp v$ , $\varphi$			
	Cossus ligniperda					, XII.,	115;	XIV.,	620
	Crioceris asparagi				,	XVI.,	761;		
	Cryptococcus fagi					***		XI.,	755
	Cryptorrhynchus lapathi	* * *			.,***			XV.,	433
	Cynipidae		0.0-0					XVI.,	293
	Dactylobius citri, D. lon	gispinv	$\iota s$				• • •	XV.,	
	Dasychira pudibunda						• • •	XVI.,	
	Dermestes lardarius			• • •					
	Diaspis rosae					***			437
	Diloba coeruleocephala				• • •		***	XIV.,	
	Dilophus febrilis					XIV.,	219;	XVI.,	
	Diplosis aurantiaca			• • •			• • •	XV.,	
	Diplosis humuli							XVI.,	565
	Diplosis pyrivora				0:0800			XIII.,	
	Diplosis tritici						***	XIV.,	
	Elateridae ,	• • •	2	XII., 10	4; X1	IV., 554	; XV.	I., 556,	936
	Enchytraeid worms			***			* * *	XIV.,	219
	Entomobrya nivalis			• • •				XVI.,	622
		• • •				• • •		XV.,	
	Eriocampa limacina	• • •	• • •	• • •	***	VT 010	010	XIII.,	709
	Eriophyes avellanæ		• • •	• • •	XI	V., 219,	070;	A V L.,	127
	Eriophyes pyri	• • •	• • •		X V J	[., 210;			299
							D	2	

1200									
THISC	cts, etc. (continued)—	. =00	~~~~	FOF #1	O= -	57T'57 =	0 0 0	3737	H=0
	Eriophyes ribis XI., 435	5,500;						; $XV.,$	752
	Eriophyes tiliae							XV.,	277
	Eristalis tenax							XV.,	200
	Euacanthus interruptus							XVI.,	570
	Forficularia auricularia		4 4 5	XII	549	; XV.,	201	XVI	621
			" YII	F 51 ·	XI	V., 293	· XV	276 6	301
	Galerucella lineola		Δ.1.	ι., στ ,	$\Delta 1$	V., 200	$, \Delta v$	, 210, t	400
	0					XVI.,		A.V.11.,	400
	Gastrophilus equi				• • •	*****	***	XII.,	108
	Geophilus longicornis							XVI.,	625
	Glyciphagus domesticus							XIV.,	156
	Glyciphagus spinipes							XIV.,	156
	Gnorimus nobilis		•••					XIV.,	353
	Gordius worms							XIV.,	558
			• • •	• • •	• • •			XV.,	978
	Gryllus domesticus				• • •	VII	000	XIV.,	200
	Haltica oleracea		• • •	41414	• • •	All	298;	XIV.,	806
	Harpalus ruficornis			• • •				XIII., 7	
						XIV.,	291, ;	XVII,	388
	Hedya ocellana							XIII., XII.,	707
	Helophorus rugosus					XI.	. 489 :	XII	102
	Hepialus	• • •						XV.,	924
	Hepialus humuli		• • •	• • •	ΥV	7I., 35,	563	vvii,	300
		• • •	• • •			VIV.	ອບວຸ, . ຂະຄ	. VV	004
	Hepialus lupulinus		• • •	• • •	• • •	XIV	., 592	; A.V.,	924
	Heterodera schachtii						XV.	I., 555,	625
	Hoplocampa fulvicornis				XL	II., 709	; XV	l., 385,	389
16	Hoplocampa (Tenthredo	) testuc	linea			XIII.,	709:	X1V.,	482
	Hyalopterus arundinis	* * *	• • •		111	• • •		XIII.,	713
	Hyalopterus pruni				4	XIII.,	713:	XVII	827
	Hydracia micacea					,	, .	XV	505
	Terror III		• • •	• • •		$\overrightarrow{\mathbf{v}}\overrightarrow{\mathbf{v}}$	840 -	XV., XVI.,	388
	Hylemyia coarctata		• • •	• • •	• • •	VIV	691	A V 1.,	600
	Hylemyia nigrescens	• • •	• • •	• • •		AL V	., 021	; XV., XIV.,	002
	Hylesinus piniperda	• • •				• • •	• • •	$\Delta IV.,$	217
	Hylobius abietis					37 ; XV		X1.,	690
	Hypoderma bovis	XI	II., 482	2; XVI	[., 9	37 ; XV	II., 31	17, 621,	659
	Incurvaria capitella							XI.,	170
	Julus pulchellus		***				XX	7., 508,	
	Labia minor			XII	549	2; XV.	201 :	XVI	621
	T ,		• • •			, XI.,			
	and the second s	• • •	• • •	***				VIII.,	716
	Lecanium coryli	• • •		• • •	• • •			XIII.,	(10
	Lecanium persicae	***	• • •					XI.,	
	,, ,, var.	ribis				S		XV.,	
	Lecanium ribis							XIII.,	368
	Lecanium scale							XIV.,	162
	Leptinotarsa (Doryphor					XT:	. 435 :	XVI.,	915
	Leucoptera scitella							XVI.,	
				***	• • •			37377	
	Liophlaeus nubilus			• • •				VVI.,	906
	Lithocolletis messanielle	<i>t</i> .	• • •			• • •	• • •	XVI.,	290
	Lophyrus pini		***					XVII.,	
								VI	551
	Lucilia sericata								
	Lucilia sericata Lyctus canaliculatus	• • •							
	Lyctus canaliculatus	•••	• • •	• • •	• • •			XII.,	621
	Lyctus canaliculatus Lyonetia clerckella	•••	•••	•••	• • • •	<sub>X</sub>	I., <b>4</b> 9	; XV.,	621 433
	Lyctus canaliculatus Lyonetia clerckella Mamestra brassicae	•••	•••	•••	• • •	<sub>X</sub>		; XV., XI	621 433 223
	Lyctus canaliculatus Lyonetia clerckella Mamestra brassicae Megachile		•••	•••	• • • •	<sub>X</sub>	I., <b>4</b> 9	XII., ; XV., XI., XIV.,	621 433 223 118
	Lyctus canaliculatus Lyonetia clerckella Mamestra brassicae Megachile Megastigmus spermotroj		•••	•••	• • • •	<sub>X</sub>	I., 49	XII., ; XV., XI., XIV., XII.,	621 433 223 118 615
	Lyctus canaliculatus Lyonetia clerckella Mamestra brassicae Megachile Megastigmus spermotrop Melanthia bicolorata		•••	•••	• • • •	<sub>X</sub>	I., 49	XII., ; XV., XI., XIV., XII., XVII.,	621 433 223 118 615 299
	Lyctus canaliculatus Lyonetia clerckella Mamestra brassicae Megachile Megastigmus spermotrop Melanthia bicolorata Meligethes aeneus	ohus on	   Dougl	as fir	• • • •	X	I., 49	XII., XV., XIV., XIV., XII., XVII., XIV.	621 433 223 118 615 299 214
	Lyctus canaliculatus Lyonetia clerckella Mamestra brassicae Megachile Megastigmus spermotrop Melanthia bicolorata	ohus on	   Dougl	as fir	• • • •	X	II., 49	XII., ; XV., XI., XIV., XII., XVII., XIV., XI.,	621 433 223 118 615 299 214 245
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